PERCENTAGE LOG OF WATER-WELL CUTTINGS
UTAH GEOLOGICAL SURVEY

DWRi Appropriation #: 07-09-004-M00 Well Owner: City of Blanding
Location: (D-37-22)1bcb, San Juan County, Utah Win #: 430057
Driller: Beeman Drilling Company Geologist: Janae Wallace, 11/16/07

Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
0	10	100	0	0	0	0	red clay, silt, and sand composed of quartz, feldspar, lithic fragments, and mafic minerals; calcareous
10	20	0	100	0	0	0	yellow-tan fine to medium sand composed of dominantly of quartz with minor feldspar, mafic minerals, and chert; non calcareous; Dakota Sandstone?
20	30	0	100	0	0	0	“
30	40	0	25	0	75	0	gray and yellow sand and sandstone with chert and limestone gravel; sand is fine to medium and consists of quartz, feldspar, and lithic fragments; non calcareous; Burro Canyon Formation?
40	50	0	10	0	90	0	“ gray, yellow, green, and pink; slightly calcareous
50	60	0	25	0	75	0	“
60	70	0	10	0	90	0	“
70	80	0	10	tr	90	0	“ trace green mudstone
80	90	0	50	50	0	0	light green and tan-pink sandy mudstone and white-gray sand; sand is fine to medium and dominantly consists of quartz with minor feldspar and chert; calcareous

*unc=unconsolidated; disag=disaggregated; ms=mudstone, sandy mudstone, and siltstone; ss=sandstone; ls=limestone

Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
90	100	0	40	50	10	0	green, gray-green, and pink-tan sand, sandstone, and sandy mudstone; sand is fine to medium and consists dominantly of quartz with minor feldspar and chert; calcareous
100	110	0	0	10	90	0	green and green-gray sandstone and mudstone; sandstone is composed dominantly of quartz with minor feldspar and chert; non calcareous
110	120	0	0	90	10	0	red mudstone with minor green, gray, and tan sandstone; trace chert; non calcareous
120	130	0	0	50	50	0	" green, pink, white, and red
130	140	0	0	90	10	0	" green, gray, and minor red
140	150	0	0	50	50	0	green, green-gray, and pink mudstone, sandy mudstone, and sandstone; sandstone is composed dominantly of quartz with minor feldspar and chert; non calcareous
150	160	0	0	10	90	0	green, purple, yellow-green, and white-tan siltstone, mudstone, and fine-grained sandstone; non calcareous; Brushy Basin Member of the Morrison Formation?
160	170	0	0	10	90	0	"
170	180	0	0	90	10	0	red, green, purple, white, and yellow mudstone, sandy mudstone, and fine-grained sandstone; trace red and white chert
180	190	0	0	90	10	0	"
190	200	0	0	90	10	0	light green mudstone (some mica) with trace red mudstone and green fine-grained sandstone; non calcareous

*unc=unconsolidated; disag=disaggregated; ms=mudstone, sandy mudstone, and siltstone; ss=sandstone; ls=limestone

Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
200	210	0	0	90	10	0	dark and light green with trace red-brown sandy mudstone, siltstone, mudstone, and fine-grained sandstone; some mica; trace pyrite; non calcareous
210	220	0	0	100	tr	0	green, white, and buff mudstone; trace sandstone; trace pyrite; non calcareous
220	230	0	0	100	tr	0	“
230	240	0	0	10	90	0	gray, green, and buff with trace red siltstone, mudstone, and fine-grained sandstone; trace volcanic rock fragment (conglomerate?); calcareous
240	250	0	0	25	75	0	“
250	260	0	0	100	tr	0	green, gray, buff, and trace pink siltstone and mudstone; trace sandstone; micaceous; slightly calcareous
260	270	0	0	95	5	0	green, gray, buff, and trace pink siltstone, mudstone, sandy mudstone, and gray fine-grained sandstone; trace chert; slightly calcareous
270	280	0	0	100	tr	0	green and pink-buff mudstone, sandy mudstone, and siltstone; mica; trace chert and sandstone; slightly calcareous
280	290	0	0	100	tr	0	“ pink buff
290	300	0	0	90	10	0	purple-brown, green, pink, and gray-buff with minor red siltstone, sandy mudstone, mudstone, and sandstone; slightly calcareous

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Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
300	310	0	0	50	50	0	brown-purple, buff, green, and pink sandstone, sandy mudstone, and mudstone; slightly calcareous; trace volcanic rock fragment?; (conglomerate?)
310	320	0	0	50	50	0	“
320	330	0	0	10	90	0	pink-buff and green fine- to medium-grained sandstone and sandy mudstone; slightly calcareous
330	340	0	0	10	90	0	“ purple, gray pink, and green
340	350	0	0	10	90	0	“ green, purple brown, and pink buff
350	360	0	0	10	90	0	“ light green and buff pink
360	370	0	0	50	50	0	light green and light purple and buff fine-grained sandstone, sandy mudstone, and mudstone; trace pyrite; slightly calcareous
370	380	0	0	50	50	0	pink-tan and green sandy mudstone and fine-grained sandstone composed of quartz, feldspar, mica, and lithic fragments; trace red-orange chalcedony; slightly calcareous
380	390	0	0	50	50	0	gray, green, buff, and pink-brown siltstone and fine-grained sandstone; slightly calcareous
390	400	0	0	10	90	0	green, brown, and pink-buff siltstone and medium-grained sandstone composed of quartz, feldspar, chert, and lithic fragments; slightly calcareous
400	410	0	0	10	90	tr	green and purple-brown siltstone, mudstone, and fine to coarse-grained sandstone composed of quartz, feldspar, chert, and lithic fragments; trace limestone; slightly calcareous

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Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
410	420	0	0	50	50	0	green and purple-brown mudstone, sandy mudstone, siltstone, and fine-grained sandstone composed of quartz, feldspar, chert, and lithic fragments; slightly calcareous
420	430	0	0	10	90	0	“
430	440	0	0	10	90	0	“
440	450	0	0	10	90	0	“
450	460	0	0	5	95	0	“ green, buff gray, and purple brown; non calcareous
460	470	0	0	10	90	0	“ light and dark green and brown gray
470	480	0	0	80	20	tr	“ trace limestone
480	490	0	50	50	0	0	“ no limestone
490	500	0	90	0	10	0	light and dark green mudstone with gray-tan and white fine sand; non calcareous
500	510	0	90	0	10	0	tan-gray, brown, green-gray, and green sand and sandstone; sand is fine to coarse and consists of quartz, feldspar, chert, and lithic fragments; non calcareous
510	520	0	98	2	0	0	gray-green and white sand and red mudstone; sand is fine to coarse and consists of quartz, feldspar, chert, and lithic fragments; non calcareous
520	530	0	98	2	0	0	“
530	540	0	90	10	0	0	green and gray sand with minor green, gray, and red-brown mudstone with mica; sand is fine to coarse and consists of quartz, feldspar, chert, and lithic fragments; non calcareous

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Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
540	550	0	90	10	0	0	gray-green and white sand and red mudstone; sand is fine to coarse and consists of quartz, feldspar, chert, and lithic fragments; non calcareous
550	560	0	95	5	0	0	“
560	570	0	100	tr	0	0	“ trace mudstone
570	580	0	90	tr	10	0	green and green-gray sand and sandstone with trace sandy mudstone and mudstone; sand is fine to coarse and consists of quartz, feldspar, chert, and lithic fragments; slightly calcareous
580	590	0	70	20	10	0	red, pink, green, and green gray sand and sandstone with minor sandy mudstone and mudstone; sand is fine to coarse and consists of quartz, feldspar, chert, and lithic fragments; slightly calcareous
590	600	0	70	20	10	0	“
600	610	0	100	tr	0	0	green-gray and white sand with trace siltstone and mudstone; sand is dominantly quartz with minor feldspar and lithic fragments; non calcareous
610	620	0	96	2	2	0	green-gray and gray sand, sandstone, and sandy mudstone; sand is dominantly quartz with minor feldspar and lithic fragments; non calcareous
620	630	0	90	5	5	0	“
630	640	0	0	80	20	0	red-brown siltstone with green sandy mudstone, mudstone, and fine-grained sandstone; calcareous

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Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
640	650	0	0	80	20	0	" trace gypsum
650	660	0	0	100	tr	tr	red-brown and orange mudstone and sandy mudstone with trace gray-green sandstone and limestone; trace gypsum; calcareous
660	670	0	0	80	20	tr	red-brown and orange mudstone and sandy mudstone with fine-grained gray-green sandstone and trace limestone; trace gypsum; calcareous
670	680	0	0	80	20	tr	"
680	690	0	10	80	10	tr	red-brown and orange fine sand, mudstone, and sandy mudstone with fine-grained gray-green sandstone and trace limestone; calcareous
690	700	0	80	20	tr	0	red-brown and orange fine sand, mudstone, and sandy mudstone with trace fine-grained gray-green sandstone; calcareous
700	710	0	0	50	50	tr	red, pink, and green-gray siltstone, sandstone, and sandy mudstone; sandstone dominantly consists of quartz with minor feldspar and lithic fragments; trace limestone; calcareous
710	720	0	90	5	5	0	pink sand and sandstone with red mudstone; sand is fine to medium and is dominantly composed of quartz with minor feldspar and lithic fragments; non calcareous; Salt Wash Member of the Morrison Formation?
720	730	0	100	tr	tr	0	white-pink sand with trace siltstone and sandstone; sand is fine to medium and is dominantly composed of quartz with minor feldspar and lithic fragments; non calcareous

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Depth Range (feet)		PERCENTAGES					COMMENTS
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
730	740	0	100	tr	tr	0	" trace galena
740	750	0	0	95	5	tr	red siltstone and mudstone with fine-grained sandstone; trace limestone; calcareous
750	760	0	0	50	50	0	red mudstone and minor pink and green fine-grained sandstone composed of quartz, feldspar, and lithic fragments; calcareous
760	770	0	0	90	10	0	"
770	780	0	0	100	0	0	red with trace purple siltstone and mudstone; trace gypsum; calcareous
780	790	0	80	10	10	0	pink and minor red sand, siltstone, mudstone with fine- to medium-grained sandstone; calcareous
790	800	0	80	10	10	tr	" fine to coarse sand; trace black chert and limestone
800	810	0	0	100	tr	0	red with trace green and pink siltstone and mudstone; trace sandstone; calcareous
810	820	0	40	50	10	0	red and pink sand, sandstone, siltstone, and mudstone; sand is fine to very fine; calcareous
820	830	0	10	10	80	0	"
830	840	0	80	10	10	0	" trace gypsum
840	850	0	80	10	10	0	"
850	860	0	80	10	10	0	"
860	870	0	98	2	0	0	pink sand with minor red siltstone; sand is fine to medium and consists of quartz, feldspar, and lithic fragments; calcareous

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Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
870	880	0	0	30	70	0	red-brown, pink, and trace green fine- to medium-grained sandstone with siltstone; sandstone consists of quartz, feldspar, and lithic fragments; slightly calcareous
880	890	0	0	5	95	0	orange-pink and red fine-grained sandstone and siltstone; sandstone consists of quartz, feldspar, lithic fragments, and mafic minerals; slightly calcareous
890	900	0	0	tr	100	0	orange-pink fine-grained sandstone and trace siltstone; sandstone consists of quartz, feldspar, lithic fragments, and mafic minerals; calcareous
900	910	0	45	10	45	0	red-brown fine-grained sandstone with trace pink and green sand, siltstone, and mudstone; sandstone consists of quartz, feldspar, lithic fragments, and mafic minerals; trace gypsum; calcareous
910	920	0	40	20	40	0	“
920	930	0	40	20	40	0	“
930	940	0	80	20	0	0	pink, red-brown, and minor green fine to medium sand and mudstone; sand consists of quartz, feldspar, and lithic fragments; trace gypsum; calcareous
940	950	0	0	20	80	0	orange-pink and red fine-grained sandstone, siltstone, and mudstone; sandstone consists of quartz, feldspar, and mafic minerals; calcareous; Summerville Formation?
950	960	0	0	10	90	0	“orange-pink, red, and white with minor gray and green

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Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
960	970	0	0	50	50	0	orange-pink, red, and white with minor gray, green, and brown siltstone and mudstone; sandstone is fine- to medium-grained and consists of quartz, feldspar, lithic fragments, and mafic minerals; calcareous
970	980	0	25	50	25	0	orange-red with minor green, brown, and white fine-grained sandstone, sand, mudstone, and siltstone; calcareous
980	990	0	25	25	50	0	“
990	1000	0	25	25	50	0	“
1000	1010	0	25	25	50	0	orange-red and brown sand, sandstone, mudstone, and siltstone; sandstone is fine-grained and consists dominantly of quartz with minor feldspar and mafic minerals; non calcareous; Entrada Sandstone?
1010	1020	0	80	10	10	0	“
1020	1030	0	50	25	25	0	orange sand with red, brown, and green sandstone, siltstone, and mudstone; sand is very fine to medium; non calcareous
1030	1040	0	0	25	75	0	pink-orange fine-grained sandstone with red-brown siltstone and minor green and brown mudstone; slightly calcareous
1040	1050	0	0	50	50	0	“ trace gypsum?
1050	1060	0	0	100	tr	0	red siltstone with trace green mudstone and sandstone; trace pyrite; slightly calcareous
1060	1070	0	25	50	25	0	red siltstone, orange sand and sandstone, and trace green and brown mudstone; sand is fine; trace gypsum; slightly calcareous

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Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
1070	1080	0	0	80	20	0	red siltstone, minor green mudstone and siltstone, and white quartz-rich fine-grained sandstone; trace pyrite; slightly calcareous
1080	1090	0	80	10	10	0	yellow-gray-pink sand with red, brown, and green siltstone and white and pink sandstone; sand is fine to medium and dominantly consists of quartz with minor feldspar and lithic fragments; trace gypsum; slightly calcareous
1090	1100	0	90	10	0	0	gray-yellow-white sand with red, brown, green, and gray siltstone; sand is quartz rich; trace gypsum; non calcareous
1100	1110	0	90	5	5	0	orange-pink-white quartz-rich sand, sandstone, and red sandy mudstone; sand is fine to medium; non calcareous
1110	1120	0	80	20	tr	0	light orange quartz-rich sand with red and green siltstone and sandy mudstone; trace sandstone; non calcareous
1120	1130	0	50	25	25	0	orange, white, red, and green sand, sandstone, siltstone, mudstone, and sandy mudstone; non calcareous
1130	1140	0	90	5	5	0	orange sand and red and green mudstone and siltstone; non calcareous; trace pyrite
1140	1150	0	0	50	50	0	brown and trace green mudstone and siltstone with red-orange sandstone; non calcareous
1150	1160	0	90	10	tr	0	red-orange quartz-rich sand with red-brown and green mudstone and sandy mudstone; trace sandstone; sand is fine to medium; trace pyrite; non calcareous

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Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
1160	1170	0	90	10	tr	0	" orange pink
1170	1180	0	90	10	tr	0	"
1180	1190	0	90	10	tr	0	"
1190	1200	0	90	10	tr	0	" trace black chert
1200	1210	0	90	10	tr	0	"
1210	1220	0	80	10	10	0	gray-purple quartz-rich sand with red-orange, red-purple, and white siltstone, mudstone, and fine-grained sandstone; sand is fine- to medium; non calcareous
1220	1230	0	50	10	40	0	"
1230	1240	0	20	80	tr	0	red-orange with minor brown and green quartz-rich sand and siltstone; trace sandstone; slightly calcareous
1240	1250	0	0	20	80	0	red-orange fine sand composed of quartz, feldspar, and mafic minerals with brown and trace green mudstone and siltstone; slightly calcareous; Carmel Formation?
1250	1260	0	20	60	20	0	red-orange sand with brown and green siltstone mudstone and sandstone; sand consists of poorly sorted quartz, feldspar, lithic fragments, and mafic minerals; trace gravel-size white and black chert; slightly calcareous
1260	1270	0	10	50	40	0	"
1270	1280	0	20	10	70	0	pink-yellow quartz-rich sand, light pink and red sandstone, and red and brown mudstone and siltstone; sand is fine to medium; non calcareous

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Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
1280	1290	0	95	5	0	0	yellow-white-pink fine to medium quartz-rich sand with red and white mudstone and siltstone; non calcareous
1290	1300	0	95	5	0	0	“
1300	1310	0	0	95	0	5	brown-red and green mudstone and siltstone with gray limestone; calcareous; Navajo Sandstone?
1310	1320	0	0	5	95	tr	yellow-white fine- to medium-grained quartz-rich sandstone with green and red-brown mudstone and siltstone; trace limestone; slightly calcareous
1320	1330	0	20	0	80	0	yellow-white fine to medium quartz-rich sand and sandstone; non calcareous
1330	1340	0	80	0	20	0	“
1340	1350	0	80	0	20	0	“
1350	1360	0	100	0	0	0	yellow-white fine to medium quartz-rich sand; non calcareous
1360	1370	0	98	0	2	0	yellow-white fine to medium quartz-rich sand and sandstone; non calcareous
1370	1380	0	90	0	10	0	“
1380	1390	0	100	0	0	0	yellow-white fine to medium quartz-rich sand; non calcareous
1390	1400	0	100	0	0	0	“
1400	1410	0	90	0	10	0	light yellow-white fine to medium quartz-rich sand and sandstone; non calcareous
1410	1420	0	75	0	25	tr	“ trace limestone

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Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
1420	1430	0	80	0	10	10	yellow-white quartz-rich fine to medium sand and sandstone with gray limestone; slightly calcareous
1430	1440	0	90	tr	0	10	yellow-white fine to medium quartz-rich sand and gray limestone; trace red mudstone; slightly calcareous
1440	1450	0	70	0	10	20	yellow-white quartz-rich fine to medium sand and sandstone with gray limestone; slightly calcareous
1450	1460	0	90	0	5	5	“
1460	1470	0	100	0	0	tr	yellow-white quartz-rich fine to medium sand with trace gray limestone; slightly calcareous
1470	1480	0	90	0	5	5	yellow-white quartz-rich fine to medium sand and sandstone with gray limestone; slightly calcareous
1480	1490	0	90	0	10	tr	“ trace limestone
1490	1500	0	98	0	2	0	yellow-white fine to medium quartz-rich sand and sandstone; non calcareous
1500	1510	0	100	0	0	0	yellow-white quartz-rich fine to medium sand; slightly calcareous
1510	1520	0	90	0	10	0	yellow-white fine to medium quartz-rich sand and sandstone; non calcareous
1520	1530	0	100	0	0	0	yellow-white quartz-rich fine to medium sand; slightly calcareous
1530	1540	0	20	0	70	10	yellow-white quartz-rich fine to medium sand and sandstone with gray limestone; slightly calcareous

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Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
1540	1550	0	100	tr	tr	tr	orange-white quartz-rich fine to medium sand with trace mudstone, sandstone, and gray limestone; slightly calcareous
1550	1560	0	100	0	0	tr	light orange-pink fine sand composed dominantly of quartz with minor feldspar and mafic minerals; trace limestone; non calcareous
1560	1570	0	0	0	100	tr	light pink-gray and yellow-gray fine-grained quartz-rich sandstone; trace limestone; non calcareous
1570	1580	0	20	0	80	0	pink-gray and yellow-gray quartz-rich fine sand and sandstone; non calcareous
1580	1590	0	20	0	80	0	“
1590	1600	0	0	0	100	0	light pink-gray and yellow-gray fine-grained quartz-rich sandstone; non calcareous
1600	1610	0	80	0	20	0	pink-gray and yellow-gray quartz-rich fine sand and sandstone; non calcareous
1610	1620	0	90	0	10	0	“
1620	1630	0	90	0	10	0	“
1630	1640	0	98	0	2	0	“
1640	1650	0	100	0	0	0	light orange-pink fine sand composed dominantly of quartz with minor feldspar and mafic minerals; non calcareous
1650	1660	0	100	0	0	0	light orange-pink fine sand composed dominantly of quartz with minor feldspar and mafic minerals; non calcareous
1660	1670	0	0	0	100	0	pink-gray and yellow-gray quartz-rich fine-grained sandstone; non calcareous

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Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
1670	1680	0	90	0	10	0	orange-pink quartz-rich fine sand and sandstone; non calcareous
1680	1690	0	90	0	10	0	“
1690	1700	0	50	0	50	tr	“ trace limestone
1700	1710	0	90	0	10	0	“ no limestone
1710	1720	0	90	0	10	0	“
1720	1730	0	90	0	10	0	orange fine sand and sandstone composed dominantly of quartz with feldspar, lithic fragments, and mafic minerals; trace chert; non calcareous
1730	1740	0	98	0	2	0	“
1740	1750	0	90	0	10	0	“
1750	1760	0	90	0	10	0	“
1760	1770	0	90	0	10	0	“
1770	1780	0	90	0	10	0	“
1780	1790	0	90	0	10	0	“ orange and minor red
1790	1800	0	90	0	10	0	red fine to medium sand and sandstone composed dominantly of quartz with feldspar, lithic fragments, and mafic minerals; trace gypsum; non calcareous
1800	1810	0	90	0	10	0	red and purple fine to medium sand and sandstone composed dominantly of quartz with feldspar, lithic fragments, and mafic minerals; trace gypsum; non calcareous

*unc=unconsolidated; disag=disaggregated; ms=mudstone, sandy mudstone, and siltstone; ss=sandstone; ls=limestone

Depth Range (feet)		**PERCENTAGES**					**COMMENTS**
		unc*	dis*	consolidated			
		sand	ss*	ms*	ss*	ls*	
1810	1816	0	25	25	50	0	red and purple fine to medium sand and sandstone composed dominantly of quartz with feldspar, lithic fragments, and mafic minerals; green and gray mudstone and siltstone; trace chert; trace gypsum; non calcareous; transition between Navajo Sandstone and Kayenta Formation?

*unc=unconsolidated; disag=disaggregated; ms=mudstone, sandy mudstone, and siltstone; ss=sandstone; ls=limestone